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Abstract of the Disclosure

An unconstrained artificial knee joint for dogs is provided. A stainless steel femoral component has two condylar surfaces formed without any reinforcing ribs in order to minimize the amount of resection of the distal end of the femur. A femoral anchoring stem is formed integrally with the femoral component and is embedded in the femur. A metallic tibial support platform is provided which includes a tibial anchoring stem integrally formed with the platform, the stem adapted to extend downwardly into the tibia and be embedded in the tibia. A plastic spacer is carried by the upper surface of the tibial support and cooperates with and slides smoothly against the condylar surfaces of the femoral component.